

EXPRESS MAIL MAILING LABEL: EK603122764US

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
		Application Number	10-657,610
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Filing Date	
		First Named Inventor	JIANG et al.
		Art Unit	
		Examiner Name	
Sheet	1	of	2
		Attorney Docket Number	M03A224

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JW	1	US- 4 492 769	01-08-1985	Blanchard et al.	
JW	2	US- 4 680 282	07-14-1987	Blanchard et al.	
JW	3	US- 5 013 705	05-07-1991	Koberstein et al.	
JW	4	US- 5 965 481	10-12-1999	Durand et al.	
JW	5	US- 5 023 276	06-11-1991	Yarrington et al.	
JW	6	US- 2001/0041159	11-15-2001	Tamhankar et al.	
JW	7	US- 6 051 162	04-18-2000	Van den Sype	
JW	8	US- 5 510 056	04-23-1996	Jacobs et al.	
JW	9	US- 5 658 497	08-19-1997	Kumar et al.	
JW	10	US- 4 048 091	09-13-1997	Barnaba	
JW	11	US- 5 856 585	01-05-1999	Sanfilippo et al.	
JW	12	US- 4 522 894	06-11-1985	Hwang et al.	
JW	13	US- 4 844 837	07-04-1989	Heck et al.	
JW	14	US- 4 897 253	01-30-1990	Jenkins	
JW	15	US- 5 368 835	11-29-1994	Choudhary et al.	
JW	16	US- 5 441 581	08-15-1995	Van den Sype et al.	
JW	17	US- 5 883 138	03-16-1999	Hershkowitz et al.	
JW	18	US- 5 976 721	11-02-1999	Limaye	
JW	19	US- 5 639 401	06-17-1997	Jacobs et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
JW	20	EP 1 134 188 A2	09-19-2001	The BOC Group		
JW	21	EP 0 524 643 A1	01-27-1993	Coming Inc.		
JW	22	EP 0 781 591 A2	07-02-1997	ICT Co., Ltd.		
JW	23	EP 0 548 679 A1	06-30-1993	Idemitsu Kosan		
JW	24	EP 0 640 561 A1	03-01-1995	Shell Internationale		

Examiner Signature	Timothy Vanoy	Date Considered	NOV 2 2005
--------------------	---------------	-----------------	------------

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10-657,610
		Filing Date	
		First Named Inventor	JIANG et al.
		Art Unit	
		Examiner Name	
Sheet 2 of 2	Attorney Docket Number	M03A224	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
Jav	25	US- 5 785 774	07/28/1998	Van den Sype et al.	
Jav	26	US- 5 658 497	08-19-1997	Kumar et al.	
Jav	27	US- 5 648 582	07-15-1997	Schmidt et al.	
		US-			
Jav	28	US- 5 580 536	12-03-1996	Yao et al.	
Jav	29	US- 5 232 889	08-03-1993	Blanchard et al.	
Jav	30	US- 4 537 873	08-27-1985	Kato et al.	
Jav	31	US- 4 927 799	05-22-1990	Matsumoto et al.	
Jav	32	US- 6 329 434 B1	12-11-2001	Wen et al.	
Jav	33	US- 6 458 334 B1	10-01-2002	Tamhankar et al.	
Jav	34	US- 5 431 855	07-11-1995	Green et al.	
Jav	35	US- 5 500 149	03-19-1996	Green et al.	
Jav	36	US- 6 254 807 B1	07-03-2001	Schmidt et al.	
Jav	37	US- 6 455 597 B2	09-24-2002	Hohn et al.	
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ² Number ³ Kind Code ⁴ (if known)				
Jav	38	GB 1399137	06-25-1975	Ward		
Jav	39	WO 99/48805	09-30-1999	Carpenter		
Jav	40	EP 0 303 438 A2	02-15-1989	Davy McKee Corp.		
Jav	41	JP 11-342334 A	12-14-99	Nippon Shokubai		
Jav	42	WO 93/01130	01-21-93	Bhattacharya		
Jav	43	WO 98/35908	08-20-98	Jacobs		

Examiner Signature	Timothy Vanooy	Date Considered	Nov 2 2005
--------------------	----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Compl to if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Applicant Number	10-657,610
		Filing Date	
		First Named Inventor	JIANG et al.
		Art Unit	
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	M03A224	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Jav	1	SINTERED CERIA: A NEW DENSE AND FINE GRAINED CERAMIC MATERIAL by J.F. Baumard, C. Gault and A. Argoitia; Journal of the Less-Common Metals, 127 (1987) 125-130	
Jav	2	"A Comparative Study of Oxygen Storage Capacity Over Ce _{0.6} Zr _{0.4} O ₂ Mixed Oxides Investigated by Temperature-Programmed Reduction and Dynamic OSC Measurements," Hickey et al., Catalysis Letters, Vol. 72, No. 102, pp. 45-50 (2001)	
Jav	3	"Effect of Ceria Structure on Oxygen Migration for Rh/Ceria Catalysts," by Cordatos et al., J. Phys. Chem., 100, 785-789 (1996)	
Jav	4	"Tape Cast Solid Oxide Fuel Cells for the Direct Oxidation of Hydrocarbons," Park et al., Journal of the Electrochemical Society, 148 (5), pp. A443-A447 (2002)	
Jav	5	"Catalytic Partial Oxidation of Methane to Synthesis Gas Over Ni-CeO ₂ ," Zhu et al., Applied Catalysis A: General 208, pp. 403-417 (2001)	
Jav	6	"Catalytic Partial-Oxidation of Methane on a Ceria-Supported Platinum Catalyst for Application in Fuel Cell Electric Vehicles," Pino et al., Applied Catalysis A: General 225, pp. 63-75 (2002)	
Jav	7	K. Otsuka, T. Ushiyama and I. Yamanaka, "Partial Oxidation of Methane Using the Redox of Cerium Oxide," CHEMISTRY LETTERS, pp. 1517-1520, 1993	
Jav	8	E.S. Putna, J. Stubenrauch, J.M. Vohs, and R. J. Gorte, "Ceria-Based Anodes for the Direct Oxidation of Methane in Solid Oxide Fuel Cells," LANGMUIR, Vol. 11, No. 12, 1995, pp. 4832-4837	

Examiner Signature	Timothy Vanoy	Date Considered	NOV 2 2005
--------------------	---------------	-----------------	------------

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.